

SEQUENCE LISTING

<110> Duncan, Roy
<120> NOVEL REOVIRUS-DERIVED PROTEINS AND USES THEREFOR
<130> 78973-1C
10 <140> 08/965,708
<141> 1997-11-07
<160> 15
<170> FastSEQ for Windows Version 3.0
20 <210> 1
<211> 1643
<212> DNA
<213> avian reovirus strain 176
<221> CDS
<222> (25)...(318)
<223> nucleotide sequence encoding P11 protein (SEQ ID NO:2)
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<222> (293)...(730)
<223> CDS encoding P16 protein (SEQ ID NO:3)
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<221> misc_feature
<222> (630)...(1607)
<223> CDS encoding sigma3 protein (SEQ ID NO:4)
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Met Leu Arg Met Pro Pro Gly Ser Cys
1 5
aac ggt gcg act gct gta ttt ggt aac gtt cat tgt cag gca gctcaa 99
Asn Gly Ala Thr Ala Val Phe Gly Asn Val His Cys Gln Ala Ala Gln
10 15 20 25
aac acg gca ggt ggt gat ttg caa gct acg tca tcc ata att gca tat 147
Asn Thr Ala Gly Gly Asp Leu Gln Ala Thr Ser Ser Ile Ile Ala Tyr
30 35 40
tgg cct tat cta gcg gcg ggt ggt ttc tta tta att gtt atc att 195
Trp Pro Tyr Leu Ala Ala Gly Gly Phe Leu Leu Ile Val Ile Ile
45 50 55
ttc gct ctt cta tac tgt tgt aag gct aag gtc aag gcg gac gct gca 243
Phe Ala Leu Leu Tyr Cys Cys Lys Ala Lys Val Lys Ala Asp Ala Ala
60 65 70
60

cgt agt gtc ttc cat cgt gag ctg gta gcg ttg agt tct ggt aag cac 291
Arg Ser Val Phe His Arg Glu Leu Val Ala Leu Ser Ser Gly Lys His
75 80 85

aat gca atg gct ccg cca tac gac gtt tgaagtgcaa cgatttaatt 338
Asn Ala Met Ala Pro Pro Tyr Asp Val
90 95

10 tctgtccgct atcaacttcgc gaacttgcta tcccatcatt tactgctata actggggctg 398
acccatcaca gtatTTAAC attgagctcc cacacactca tcctctctat tccaaattgc 458
ctactctgtt atctcaaccc ttgagggtcc acgtgcggct gatcgccgg ttgcgtctct 518
attcaacatt gtcaagtatt ttgagtgacg atttgctct actattctcc ccacacgcta 578
tcgttccatt gcctgcattt gatcgccggc ttgtcttat agttcattgg gatggcgggt 638
ctcaatccat cgcagcgaag agaggtcgac agcttgatc ttgtcattgac ttgcgaacgtg 698
actataagtc atggcgattt gacgcccgtc tatgaacggc tgaccaatct agaagcgtct 758
acggagttt tacatcgctc catttccat atatccacta ctgtctcaaa tatttctgca 818
aatttacaag acatgaccca taccttggat gatgtactg ctaattttaga cggtttgagg 878
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20 aactccactg ccatctccaa tttgaagagt gatgtatcgt cgaacggttt agctattaca 1058
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cctccgctt gtgtcgctga cggcggtt tcattagaca tggaccccta cttctgttct 1178
caacgagttt ctttaacatc atactcgccg gaggctcaac taatgcaatt tcggtgatg 1238
gcacggggta ctaacggatc atctgatacc attgacatga ccgttaacgc tcactgtcat 1298
ggaagacgca ctgattatgatgtcgcc acggaaatc tcacggtcac tagtaacgtc 1358
gtgttattaa ctttcgattt aagtgacata acgcataatcc catcagaccc agcacgtctt 1418
gttcccaactg cgggatttcca agctgcgtcg ttccctgtgg acgtatcatt caccggat 1478
tctgcactc atgcgtacca agcgtatggg gtgtactcga gctcacgtgt cttcacaatt 1538
actttccaa cccggaggtga tggtacagcg aacattcggt ccttgaccgt gcgtaccggc 1598
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<210> 2
<211> 98
<212> PRT
<213> avian reovirus strain 176

40 <400> 2
Met Leu Arg Met Pro Pro Gly Ser Cys Asn Gly Ala Thr Ala Val Phe
1 5 10 15

Gly Asn Val His Cys Gln Ala Ala Gln Asn Thr Ala Gly Gly Asp Leu
20 25 30

Gln Ala Thr Ser Ser Ile Ile Ala Tyr Trp Pro Tyr Leu Ala Ala Gly
35 40 45

Gly Gly Phe Leu Leu Ile Val Ile Ile Phe Ala Leu Leu Tyr Cys Cys
50 55 60

50 Lys Ala Lys Val Lys Ala Asp Ala Ala Arg Ser Val Phe His Arg Glu
65 70 75 80

Leu Val Ala Leu Ser Ser Gly Lys His Asn Ala Met Ala Pro Pro Tyr
85 90 95

Asp Val

60 <210> 3
<211> 146

<212> PRT
<213> avian reovirus strain 176

<400> 3
Met Gln Trp Leu Arg His Thr Thr Phe Glu Val Gln Arg Phe Asn Phe
1 5 10 15
Cys Pro Leu Ser Leu Arg Glu Leu Ala Ile Pro Ser Phe Thr Ala Ile
20 25 30
10 Thr Gly Ala Asp Pro Ser Gln Tyr Phe Asn Ile Glu Leu Pro His Thr
35 40 45
His Pro Leu Tyr Ser Lys Leu Pro Thr Leu Leu Ser Gln Pro Cys Arg
50 55 60
Val His Val Arg Leu Ile Arg Arg Phe Ala Leu Tyr Ser Thr Leu Ser
65 70 75 80
20 Ser Ile Cys Glu Tyr Asp Cys Ala Leu Leu Phe Ser Pro His Ala Ile
85 90 95
Val Pro Leu Pro Ala Ser Asp Arg Arg Ser Cys Leu Ile Val His Trp
100 105 110
Asp Gly Gly Ser Gln Ser Ile Ala Ala Lys Arg Gly Arg Gln Leu Asp
115 120 125
30 Thr Val Ile Asp Phe Glu Arg Asp Tyr Lys Ser Trp Arg Phe Asp Ala
130 135 140
Asp Leu
145

<210> 4
<211> 326
<212> PRT
<213> avian reovirus strain 176
40 <400> 4
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1 5 10 15
Leu Ser Leu Thr Ser Asn Val Thr Ile Ser His Gly Asp Leu Thr Pro
20 25 30
Ile Tyr Glu Arg Leu Thr Asn Leu Glu Ala Ser Thr Glu Leu Leu His
35 40 45
50 Arg Ser Ile Ser Asp Ile Ser Thr Thr Val Ser Asn Ile Ser Ala Asn
50 55 60
Leu Gln Asp Met Thr His Thr Leu Asp Asp Val Thr Ala Asn Leu Asp
65 70 75 80
Gly Leu Arg Thr Thr Val Thr Ala Leu Gln Asp Ser Val Ser Ile Leu
85 90 95
60 Ser Thr Asn Val Thr Asp Leu Thr Asn Thr Ser Ser Ala His Ala Ala
100 105 110

Thr Leu Ser Ser Leu Gln Thr Thr Val Asp Gly Asn Ser Thr Ala Ile
115 120 125

Ser Asn Leu Lys Ser Asp Val Ser Ser Asn Gly Leu Ala Ile Thr Asp
130 135 140

Leu Gln Asp Arg Val Lys Ser Leu Glu Ser Thr Ala Ser His Gly Leu
145 150 155 160

10 Ser Phe Ser Pro Pro Leu Ser Val Ala Asp Gly Val Val Ser Leu Asp
165 170 175

Met Asp Pro Tyr Phe Cys Ser Gln Arg Val Ser Leu Thr Ser Tyr Ser
180 185 190

Ala Glu Ala Gln Leu Met Gln Phe Arg Trp Met Ala Arg Gly Thr Asn
195 200 205

20 Gly Ser Ser Asp Thr Ile Asp Met Thr Val Asn Ala His Cys His Gly
210 215 220

Arg Arg Thr Asp Tyr Met Met Ser Ser Thr Gly Asn Leu Thr Val Thr
225 230 235 240

Ser Asn Val Val Leu Leu Thr Phe Asp Leu Ser Asp Ile Thr His Ile
245 250 255

Pro Ser Asp Leu Ala Arg Leu Val Pro Ser Ala Gly Phe Gln Ala Ala
260 265 270

30 Ser Phe Pro Val Asp Val Ser Phe Thr Arg Asp Ser Ala Thr His Ala
275 280 285

Tyr Gln Ala Tyr Gly Val Tyr Ser Ser Ser Arg Val Phe Thr Ile Thr
290 295 300

Phe Pro Thr Gly Gly Asp Gly Thr Ala Asn Ile Arg Ser Leu Thr Val
305 310 315 320

40 Arg Thr Gly Ile Asp Thr
325

<210> 5
<211> 1643
<212> DNA
<213> avian reovirus strain 138

50 <220>
<221> CDS
<222> (25)...(318)
<223> nucleotide sequence encoding P11 protein (SEQ ID NO:6)

<220>
<221> misc_feature
<222> (293)...(730)
<223> CDS encoding P16 protein (SEQ ID NO:7)

60 <220>
<221> misc_feature
<222> (630)...(1607)
<223> CDS encoding sigma3 protein (SEQ ID NO:8)

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 Met Leu Arg Met Pro Pro Gly Ser Cys
 1 5

aac ggt gca aca gct atc ttt ggt aac gtc cat tgt cag gcg gct caa 99
 Asn Gly Ala Thr Ala Ile Phe Gly Asn Val His Cys Gln Ala Ala Gln
 10 15 20 25

10 aat act gcc ggc ggc gac ttg caa gct acc tca tcc ata att gcc tat 147
 Asn Thr Ala Gly Gly Asp Leu Gln Ala Thr Ser Ser Ile Ile Ala Tyr
 30 35 40

tgg cct tat cta gcg gcg ggt ggt ttt ttg ttg att att att att 195
 Trp Pro Tyr Leu Ala Ala Gly Gly Phe Leu Leu Ile Ile Ile Ile
 45 50 55

20 ttt gcc atc ttc tac tgt tgt aag gct aaa gtt aaa gcg gac gct gca 243
 Phe Ala Ile Phe Tyr Cys Cys Lys Ala Lys Val Lys Ala Asp Ala Ala
 60 65 70

cgg agt gtt ttc cac cgt gag ctt gta gca ctg agc tct ggt aag cac 291
 Arg Ser Val Phe His Arg Glu Leu Val Ala Leu Ser Ser Gly Lys His
 75 80 85

aat gca atg gct ccg cca tac gac gtt tgaagtgc aa cgctttgatt 338
 Asn Ala Met Ala Pro Pro Tyr Asp Val
 90 95

30 tctgccccat atcacttcgt gagcttgc ca cccatcg tt tactgctata attgggattg 398
 acccatc acg ttat ttaat att gagctt cgc acac gca tcctctctac tctaagg tgc 458
 cgactctgtt atcgc agccc tgcc gagtcc acgtgc gttt gattc gtaga ttgc gctt ct 518
 gttcaacgct gtc gagt atc tgcc gagtacg atttgc gttt actacttcc ccacac gcca 578
 tcactccact gtc ctcatcc gatc acgcat cttatctt at gttc atttgg gatgg cggg t 638
 ctcaatccat cacagc gaa agagg tgc acg tttg atac tgcatttgc ttgc aac gcg 698
 catataa atc atggc gattt gac gcca atc tat gaa acgg t gacc agt tttt aga agc gtct 758
 gcg gaa atc ac tata tgc tcc cattt ccac atgt ctacta ccg ttt caga cattt cagca 818
 gatttgcaga acgtgactcg cgc ctggat gatgt gactg ctaat ttaga tgg tatt gaga 878
 gtc accat tta ctac gcttca agattt ctgt tcc actctt caac gactgt aactg attt a 938
 40 acaa acac ct ttc tgc tca ctc gga agca ctgt ct ttc ac tcc gaa actat agt tga tggg 998
 aactcc acta ccatt gataa tt gaaa agt gatgt atcat caa acgg tct tgct atcaca 1058
 gac ctgc aga gtc gtgt taa atc ctggaa tct gttt cga gtc acgg gct atc tttt c 1118
 ctc ctctt a gtgt cgt tca cga ctg tagt gatg tgg accctt a tttt gctt 1178
 cagc gagt ca cttt gac atc tca tca gaa gctt caa tgc att cca atggatg 1238
 gca aga ggt g ttaa ac tca acg gatc atc aga acat tgc tgg tttt cgtt c 1298
 ggg aga cgc a ctg attt acat aat gtc gtc acgg gatc ttac agt ttc tagt aat g 1358
 gtgt cttaa cttt cgtt acat tca gat tttt acac gctt cacc agac ct ctc gctt 1418
 gttcc agt g cagg attt cca agcc gctg ttcc cgtt atg tttt cttt cacc aga gat 1478
 tcg aca actc atac atatca agt tttt gga gtgt tttt cta cgtt cgtt attt accatc 1538
 50 ac tttt ccc gta ctg gtgg tca cgg tccc gca aat atcc gtt tcc taa acc gtc gtc accggc 1598
 atc gac ac ct aagg tgg ggc gcc gta cgg gttt atc tca 1643

<210> 6
 <211> 98
 <212> PRT
 <213> avian reovirus strain 138

<400> 6
 60 Met Leu Arg Met Pro Pro Gly Ser Cys Asn Gly Ala Thr Ala Ile Phe
 1 5 10 15

Gly Asn Val His Cys Gln Ala Ala Gln Asn Thr Ala Gly Gly Asp Leu
20 25 30

Gln Ala Thr Ser Ser Ile Ile Ala Tyr Trp Pro Tyr Leu Ala Ala Gly
35 40 45

Gly Gly Phe Leu Leu Ile Ile Ile Phe Ala Ile Phe Tyr Cys Cys
50 55 60

10 Lys Ala Lys Val Lys Ala Asp Ala Ala Arg Ser Val Phe His Arg Glu
65 70 75 80

Leu Val Ala Leu Ser Ser Gly Lys His Asn Ala Met Ala Pro Pro Tyr
85 90 95

Asp Val

<210> 7

<211> 146

<212> PRT

<213> avian reovirus strain 138

<400> 7

Met Gln Trp Leu Arg His Thr Thr Phe Glu Val Gln Arg Phe Asp Phe
1 5 10 15

Cys Pro Ile Ser Leu Arg Glu Leu Ala Thr Pro Ser Phe Thr Ala Ile
20 25 30

30 Ile Gly Ile Asp Pro Ser Arg Tyr Phe Asn Ile Glu Leu Ser His Thr
35 40 45

His Pro Leu Tyr Ser Lys Leu Pro Thr Leu Leu Ser Gln Pro Cys Arg
50 55 60

Val His Val Arg Leu Ile Arg Arg Phe Ala Leu Cys Ser Thr Leu Ser
65 70 75 80

40 Ser Ile Cys Glu Tyr Asp Cys Ala Leu Leu Leu Ser Pro His Ala Ile
85 90 95

Thr Pro Leu Ser Ser Asp Gln Arg Ser Tyr Leu Ile Val His Trp
100 105 110

Asp Gly Gly Ser Gln Ser Ile Thr Ala Lys Arg Gly Arg Gln Leu Asp
115 120 125

50 Thr Val Ile Asp Phe Glu Arg Ala Tyr Lys Ser Trp Arg Phe Asp Ala
130 135 140

Asn Leu
145

<210> 8

<211> 326

<212> PRT

<213> avian reovirus strain 138

60

<400> 8

Met Ala Gly Leu Asn Pro Ser Gln Arg Arg Glu Val Val Ser Leu Ile
1 5 10 15

Leu Ser Leu Thr Ser Asn Ala His Ile Asn His Gly Asp Leu Thr Pro
20 25 30

Ile Tyr Glu Arg Leu Thr Ser Leu Glu Ala Ser Ala Glu Ser Leu Tyr
35 40 45

10 Arg Ser Ile Ser Ser Met Ser Thr Thr Val Ser Asp Ile Ser Ala Asp
50 55 60

Leu Gln Asn Val Thr Arg Ala Leu Asp Asp Val Thr Ala Asn Leu Asp
65 70 75 80

Gly Met Arg Val Thr Ile Thr Thr Leu Gln Asp Ser Val Ser Thr Leu
85 90 95

20 Ser Thr Thr Val Thr Asp Leu Thr Asn Thr Ser Ser Val His Ser Glu
100 105 110

Ala Leu Ser Ser Leu Arg Thr Ile Val Asp Gly Asn Ser Thr Thr Ile
115 120 125

Asp Asn Leu Lys Ser Asp Val Ser Ser Asn Gly Leu Ala Ile Thr Asp
130 135 140

30 Leu Gln Ser Arg Val Lys Ser Leu Glu Ser Val Ser Ser His Gly Leu
145 150 155 160

Ser Phe Ser Pro Pro Leu Ser Val Ala Asp Asp Val Val Ser Leu Ser
165 170 175

Met Asp Pro Tyr Phe Cys Ser Gln Arg Val Thr Leu Thr Ser Tyr Ser
180 185 190

Ala Glu Ala Gln Leu Met Gln Phe Gln Trp Met Ala Arg Gly Ala Asn
195 200 205

40 Gly Ser Ser Asp Thr Ile Asp Met Thr Val Asn Ala His Cys His Gly
210 215 220

Arg Arg Thr Asp Tyr Ile Met Ser Ser Thr Gly Gly Leu Thr Val Thr
225 230 235 240

Ser Asn Ala Val Ser Leu Thr Phe Asp Leu Ser Tyr Ile Thr Arg Leu
245 250 255

50 Pro Pro Asp Leu Ser Arg Leu Val Pro Ser Ala Gly Phe Gln Ala Ala
260 265 270

Ser Phe Pro Val Asp Val Ser Phe Thr Arg Asp Ser Thr Thr His Thr
275 280 285

Tyr Gln Ala Tyr Gly Val Tyr Ser Ser Ser Arg Val Phe Thr Ile Thr
290 295 300

60 Phe Pro Thr Gly Gly Asp Gly Pro Ala Asn Ile Arg Phe Leu Thr Val
305 310 315 320

Arg Thr Gly Ile Asp Thr
325

<210> 9
<211> 1617
<212> DNA
<213> Nelson Bay virus

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<222> (27) ... (311)
<223> nucleotide sequence encoding P11 protein (SEQ ID NO:10)

<220>
<221> misc_feature
<222> (277) ... (696)
<223> CDS encoding P16 protein (SEQ ID NO:11)

20 <220>
<221> misc_feature
<222> (611) ... (1579)
<223> CDS encoding sigma3 protein (SEQ ID NO:12)

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1 5

30 tct gtg ttt ggg agt gtg cat tgc cag tct tct aag aat tcg gct ggt 101
Ser Val Phe Gly Ser Val His Cys Gln Ser Ser Lys Asn Ser Ala Gly
10 15 20 25

gga gat ctt cag gcg aca tcc gtt ttc acg acc tat tgg cca cat ttt 149
Gly Asp Leu Gln Ala Thr Ser Val Phe Thr Tyr Trp Pro His Phe
30 35 40

40 gcc att ggt ggg ggt att ata gta gta atc ttg ttg ctt gga cta ttc 197
Ala Ile Gly Gly Ile Ile Val Val Ile Leu Leu Leu Gly Leu Phe
45 50 55

tat tgc tgt tat ctt aag tgg aag aca tcc cag gtc aag cac acg tat 245
Tyr Cys Cys Tyr Leu Lys Trp Lys Thr Ser Gln Val Lys His Thr Tyr
60 65 70

cgt cgt gag cta ata gcc ctt act cgt agt cat gtc cat tca acc cca 293
Arg Arg Glu Leu Ile Ala Leu Thr Arg Ser His Val His Ser Thr Pro
75 80 85

50 tct ggt att tcg tat gtg tgagagttct ttttatgagc cttgggtgcg 341
Ser Gly Ile Ser Tyr Val
90 95

atctggttac agatctgaga ttagttcat ttgccgtcgt gagtaacgt attatattaa 401
cgtgcacatt ccttagacc atccacaacg ttcaatgcgt tgcgtctat ctcagacccc 461
cggtgcttgg cacgtgtctt tgcttcgtcg tgcgtgtac gaccatcac ttccggattt 521
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aagaggttgtt agcattgttgcatt ttgacatgttgc accagagcat aagcgttgcg cgtatctgaca 701
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cgtctgtcgc gaatctcaag actatcgtca atactatgtc gtcaacagtt gccactatgg 881

aaggtaatt	gcaaagtgt	aagagtgaga	tttctaaca	gcaaaatgt	ctgtcagt	941
tacagacaga	gctgagcaat	gcgcacatctg	gattagcatc	catgacgact	agcttgc	1001
acttaacgac	tagtgtgaac	gctaacgctg	tggccatata	tggactcaa	gcctctt	1061
actcactgtc	tagctcaatt	cctacatcac	tcgcacatcc	cctgactgtc	tcaggcggt	1121
tttaaagtct	gtctatgaat	cgtaaatttt	tggtgacgc	tgctggttt	aattcatatt	1181
ccacattgtc	ccagatgcag	tccttaact	cgaatgtcc	aacgtcatta	tctggtacca	1241
atctgtccac	ttcttatttt	gtgcattcgc	tggtgggtt	gactgtattc	aatttgcata	1301
cgactccatgc	tttcacacact	acgtcggtt	ataccaaatt	gactatcgac	tgtcgaactt	1361
ttaccccggtc	tccaagtgtat	tggtccgtt	taataccaaa	accagcattt	caatcgagca	1421
atttctgtg	tacgggttgg	atgtgtgtca	acgacgcatt	gatcccggca	agtgtgatcg	1481
gtgcgggttga	tagtaatctt	aaggcatgt	tcttgatct	gactacgcgg	ccttcacagc	1541
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agagatgcta	ctcatc					1617

<210> 10
 <211> 95
 <212> PRT
 <213> Nelson Bay virus

20

<400> 10

Met	Ser	Ser	Asp	Cys	Ala	Lys	Ile	Val	Ser	Val	Phe	Gly	Ser	Val	His
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Cys	Gln	Ser	Ser	Lys	Asn	Ser	Ala	Gly	Gly	Asp	Leu	Gln	Ala	Thr	Ser
				20				25					30		

Val	Phe	Thr	Thr	Tyr	Trp	Pro	His	Phe	Ala	Ile	Gly	Gly	Ile	Ile	
		35					40				45				

30

Val	Val	Ile	Leu	Leu	Gly	Leu	Phe	Tyr	Cys	Cys	Tyr	Leu	Lys	Trp	
	50				55				60						

Lys	Thr	Ser	Gln	Val	Lys	His	Thr	Tyr	Arg	Arg	Glu	Leu	Ile	Ala	Leu
	65				70				75				80		

Thr	Arg	Ser	His	Val	His	Ser	Thr	Pro	Ser	Gly	Ile	Ser	Tyr	Val	
				85				90				95			

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<210> 11
 <211> 140
 <212> PRT
 <213> Nelson Bay virus

<400> 11

Met	Ser	Ile	Gln	Pro	His	Leu	Val	Phe	Arg	Met	Cys	Glu	Ser	Ser	Phe
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Tyr	Glu	Pro	Trp	Val	Arg	Ser	Gly	Tyr	Arg	Ser	Glu	Ile	Ser	Phe	Ile
		20			25						30				

Cys	Arg	Arg	Glu	Leu	Thr	Tyr	Tyr	Ile	Asn	Val	His	Ile	Pro	Leu	Asp
	35				40					45					

His	Pro	Gln	Arg	Ser	Val	Ala	Cys	Ala	Leu	Ser	Gln	Thr	Pro	Val	Ala
	50				55				60						

60

Trp	His	Val	Ser	Leu	Leu	Arg	Arg	Ser	Tyr	Asp	Pro	Ser	Leu	Pro	
	65				70				75			80			

Asp Phe Cys Glu Leu Asp Cys Val Leu Arg His Ile Arg Pro Ile Pro
 85 90 95

Arg Arg Leu Val Ser Arg Gly Phe Ser Ser His Val Val Val His Tyr
 100 105 110

Asp Arg Thr Thr Gln Ser Pro Ala Ala Lys Arg Gly Cys Ser Leu Asp
 115 120 125

10 Phe Asp Asp Glu Pro Glu His Lys Arg Phe Ala Ile
 130 135 140

<210> 12
 <211> 323
 <212> PRT
 <213> Nelson Bay virus

<400> 12

20 Met Thr Glu Pro Leu Ser Pro Gln Gln Arg Lys Glu Val Val Ala Leu
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Ile Leu Thr Met Asn Gln Ser Ile Ser Ala Ser Arg Ser Asp Met Ser
 20 25 30

Ala Leu Glu Lys Arg Val Ser Ile Ile Glu Ser Ala Gln Ala Ala Leu
 35 40 45

30 Arg Val Asp Val Thr Ser Leu Gln Ser Val Ser Ser Gly Leu Asn Ser
 50 55 60

Thr Met His Asp Leu Ser Ala Ser Val Ala Asn Leu Lys Thr Ile Val
 65 70 75 80

Asn Thr Met Ser Ser Thr Val Ala Thr Met Glu Gly Glu Leu Gln Ser
 85 90 95

40 Cys Lys Ser Glu Ile Ser Asn Thr Gln Asn Val Leu Ser Val Val Gln
 100 105 110

Thr Glu Leu Ser Asn Ala Gln Ser Gly Leu Ala Ser Met Thr Thr Ser
 115 120 125

Leu Ser Asn Leu Thr Thr Ser Val Asn Ala Asn Ala Val Ala Ile Ser
 130 135 140

Gly Leu Lys Ala Ser Leu Asn Ser Leu Ser Ser Ser Ile Pro Thr Ser
 145 150 155 160

50 Leu Ala Ser Pro Leu Thr Val Ser Gly Gly Ile Leu Ser Leu Ser Met
 165 170 175

Asn Arg Lys Phe Cys Gly Asp Ala Ala Gly Leu Asn Ser Tyr Ser Thr
 180 185 190

Leu Ser Gln Met Gln Ser Phe Asn Ser Asn Val Pro Thr Ser Leu Ser
 195 200 205

60 Gly Thr Asn Leu Ser Thr Ser Ile Leu Val His Ser Arg Gly Gly Leu
 210 215 220

225	Thr Val Phe Asn Leu Ser Thr Thr His Ala Phe Thr Pro Thr Ser Val	230	235	240
245	Asp Thr Lys Leu Thr Ile Asp Cys Arg Thr Phe Thr Pro Ser Pro Ser	250	255	
260	Asp Trp Ser Val Leu Ile Pro Lys Pro Ala Phe Gln Ser Ser Asn Phe	265	270	
10	Leu Cys Thr Gly Trp Met Cys Val Asn Asp Ala Trp Ile Pro Ala Ser	275	280	285
290	Val Ile Gly Ala Val Asp Ser Asn Pro Lys Val Met Phe Leu His Leu	295	300	
305	Thr Thr Arg Pro Ser Gln Arg Ile Thr Gly Leu Val Ile Tyr Phe Ser	310	315	320
20	Ile Asp Thr			
210	<210> 13			
211	<211> 887			
212	<212> DNA			
213	<213> baboon reovirus			
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221	<221> misc_feature			
222	<222> (25)...(444)			
223	<223> CDS			
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222	<222> (413)...(832)			
223	<223> CDS encoding P15b protein (SEQ ID NO:15)			
400	<400> 13			
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	Met Gly Gln Arg His Ser Ile Val Gln	1	5	
10	cca cca gct cca ccg cca aat gct ttt gtt gaa att gtg agc agt tct			99
15	Pro Pro Ala Pro Pro Asn Ala Phe Val Glu Ile Val Ser Ser Ser			
20	10 15 20 25			
act ggc att ata atc gct gtt ggc ata ttt gca ttt ata ttc tca ttt				147
Thr Gly Ile Ile Ala Val Gly Ile Phe Ala Phe Ile Phe Ser Phe				
30 35 40				
50	tta tat aag ttg ctg cag tgg tac aat cgt aag tca aag aat aag aaa			195
Leu Tyr Lys Leu Leu Gln Trp Tyr Asn Arg Lys Ser Lys Asn Lys Lys				
45 50 55				
cgt aaa gag caa att aga gaa caa att gag ctt ggt tta tta tca tat				243
Arg Lys Glu Gln Ile Arg Glu Gln Ile Glu Leu Gly Leu Leu Ser Tyr				
60 65 70				
ggt gct gga gta gca tca ctt cct ttg ctc aac gtt att gca cat aat				291
Gly Ala Gly Val Ala Ser Leu Pro Leu Leu Asn Val Ile Ala His Asn				
75 80 85				

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cct gga tca gtt atc tcg gct acc cct atc tat aaa ggt ccg tgc act 339
Pro Gly Ser Val Ile Ser Ala Thr Pro Ile Tyr Lys Gly Pro Cys Thr
90          95          100          105

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ggg gta cct aat tcg cgc cta ctt caa atc acg agc ggg act gca gaa 387
 Gly Val Pro Asn Ser Arg Leu Leu Gln Ile Thr Ser Gly Thr Ala Glu
 110 115 120

10 gag aac act aga att ttg aat cat gat gga aga aac cca gat gga agt 435
 Glu Asn Thr Arg Ile Leu Asn His Asp Gly Arg Asn Pro Asp Gly Ser
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atc aac gtt tgagtggcca aagtcatgg atgaaagttt gcaagtgtta 484
Ile Asn Val
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<210> 14
<211> 140
<212> PRT
<213> baboon reovirus
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Ala Phe Val Glu Ile Val Ser Ser Ser Thr Gly Ile Ile Ile Ala Val
20 25 30

Gly Ile Phe Ala Phe Ile Phe Ser Phe Leu Tyr Lys Leu Leu Gln Trp
35 40 45

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Tyr Asn Arg Lys Ser Lys Asn Lys Lys Arg Lys Glu Gln Ile Arg Glu
50 55 60

Gln Ile Glu Leu Gly Leu Leu Ser Tyr Gly Ala Gly Val Ala Ser Leu
65 70 75 80

Pro Leu Leu Asn Val Ile Ala His Asn Pro Gly Ser Val Ile Ser Ser Ala
85 90 95

Thr Pro Ile Tyr Lys Gly Pro Cys Thr Gly Val Pro Asn Ser Arg Leu
100 105 110

Leu Gln Ile Thr Ser Gly Thr Ala Glu Glu Asn Thr Arg Ile Leu Asn
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His Asp Gly Arg Asn Pro Asp Gly Ser Ile Asn Val
130 135 140

60 <210> 15
<211> 140

<212> PRT
<213> baboon reovirus

<400> 15
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Leu Asp Glu Ser Leu Gln Val Leu Cys Asn Glu Leu Lys Gly Lys Thr
20 25 30
10 Glu Trp Gln Asp Asp Met Glu Asp Trp Met Pro Tyr Trp Ile Tyr Met
35 40 45
Lys His Asp Gly Ile Ala Ile Ser Gln Ser Arg Tyr Ser Leu Leu Gln
50 55 60
Gln Leu Ala Val Trp Val Trp Lys Cys Phe Asp Phe Asp Met Cys Val
65 70 75 80
20 Tyr Asn Ile Trp Thr Trp Leu Val Lys His Ala Cys Ser Arg Cys
85 90 95
Pro Glu Phe Asp Asp Glu Ala Phe Trp Ser Gly Val Pro Thr Ile Ile
100 105 110
Lys Leu Val Ile Arg Lys Thr Met His Arg Tyr Ala Tyr Leu Asp Asp
115 120 125
30 Ser Thr Leu Ala Asp Leu Thr Glu Gln Val Gly Leu
130 135 140